

processing;

FIG. 8 is a diagram indicating more specifically the viewing point conversion processing by the image data processing unit, in which a positional relation between
5 respective element holographic images and respective element parallax images is described; and

FIG. 9 is a diagram indicating the viewing point conversion processing by means of the image data processing unit more in detail, in which a state of a
10 particular element holographic image taken from those in FIG. 8 and reconstructed is shown.

Description of the Preferred Embodiment

A preferred embodiment of the present invention will
15 be described in detail by referring to the accompanying drawings in the following.

This preferred embodiment of the present invention pertains to a holographic stereogram producing device 10 that produces a holographic stereogram by exposing and
20 recording a plurality of holographic stereogram images on a holographic recording medium on the basis of a string of a plurality of parallax images as shown in FIG. 1. In this holographic stereogram producing device 10, for producing a holographic stereogram on the basis of a
25 parallax image string obtained from captured images of an object by an image capture device 1 and/or created by a computer 2 for generating graphic data, various parameters indicative of time and/or spatial information which becomes necessary at the time of image capturing
30 and/or at the time of creating image data are controlled in batch in a storage server 3 and/or in a recording

medium (not shown) as the time spatial parameter and is used in forming the parallax image string.

The holographic stereogram producing device 10 is comprised of: an image data processing unit 11 for processing image data to be exposed and recorded; a controller 12 having a control computer 13 for controlling the holographic stereogram producing device 10 on the whole; and a holographic stereogram producing unit 14 including an optical system 15 for use in forming the holographic stereogram.

The image data processing unit 11, which has an image processing computer 16 and a memory device 17, forms a parallax image string D3 on the basis of captured image data D1 containing parallax information and/or computer graphics data D2 or the like.

By way of example, captured image data D1 are, for example, motion image data or a plurality of 2-dimensional still images which are supplied from the image capture device 1, which captures images simultaneously using a multiple-lens camera or continuously using a moving camera, for example, to the storage server 3 through which further to be supplied, and/or motion image data or a plurality of 2-dimensional still images which are supplied from the image capture device 1 as recorded in a recording medium (not shown) to be described later, wherein parallax information is contained between respective image data which constitute the captured image data D1. Further, computer graphics data D2 are, for example, motion image data or a plurality of 2-dimensional still images, which are generated by the graphic data generating computer 2 as

